	Application No.	Applicant(s)	
	Application No.		
Notice of Allowability	10/700,495 Examiner	MOTOKI ET AL.	
	Lamine		
	Thinh T Nguyen	2818	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS In herewith (or previously mailed), a Notice of Allowance (PTOL-88 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.34	S (OR REMAINS) CLOSED in 5) or other appropriate comm RIGHTS. This application is s	n this application. If not included unication will be mailed in due cour	rse. THIS
1. \boxtimes This communication is responsive to <u>9/30/2004</u> .			1
2. The allowed claim(s) is/are 1-30.			
3. \boxtimes The drawings filed on <u>05 November 2003</u> are accepted by	y the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Horal Copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have * Certified copies not received: 	ve been received. ve been received in Application	on No. <u>10/246,559</u> .	from the
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the require	ements
5. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gi			CE OF
 CORRECTED DRAWINGS (as "replacement sheets") m (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examined Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in 7. DEPOSIT OF and/or INFORMATION about the departached Examiner's comment regarding REQUIREMENT 	erson's Patent Drawing Revie —· er's Amendment / Comment o 1.84(c)) should be written on to the header according to 37 Cl posit of BIOLOGICAL MAT	r in the Office action of he drawings in the front (not the bac FR 1.121(d). ERIAL must be submitted. Note	
Attachment(s)		oformal Patent Application (PTO-15	
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 		ummary (PTO-413),	,2)
· · · · · · · · · · · · · · · · · · ·	Paper No.	/Mail Date	
 Information Disclosure Statements (PTO-1449 or PTO/SE Paper No./Mail Date 	3/08), 7. ⊠ Examiner's	Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowar	nce
of Biological Material	Ø. □ Other	<u>.</u> .	
	David Nelms		
Supervisory Patent Examiner			
Technology Center 2800			

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DETAILED ACTION

Examiner's Amendment.

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

A/ Change the title to: -- SINGLE CRYSTAL GAN SUBSTRATE

SEMICONDUCTOR DEVICE --

B/ insert at the beginning of the specification:

-- This Application is a divisional of Application Serial No. 10/246,559 filed on September 19 2002--

Specification

2. The specification has been checked to the extent necessary to determine the presence of all possible minor errors. However, the applicant cooperation is requested in correcting any errors of which the applicant may become aware in the specification.

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Reason for allowance

3. Claims 1-30 are allowed. The following is an examiner's statement of reason for allowance:

Claim 1 –30 are allowed because none of the references of record teaches or suggests the claimed SINGLE CRYSTAL GAN SUBSTRATE SEMICONDUCTOR DEVICE having the limitations:

-- "a closed defect accumulating region (H) including a core (S) penetrating the substrate and containing many accumulated defects and a grain boundary (K) enclosing the core (S), "--

-- "an extra low dislocation single crystal regions (Y) lying outside of the accompanying low dislocation single crystal region (Z) and being a single crystal with the same basic orientation as the accompanying low dislocation single crystal regions (Z). "--

and all other limitations as recited in claim 1 or claim 2.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

4. When responding to the office action, Applicants are advised to provide the examiner with the line numbers and the page numbers in the application and/or references cited to assist the examiner to locate the appropriate paragraphs.

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5. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d) in parent

Application 10/246,559 which papers have been placed of record in the file.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure: Davis et al (US patent 6,051,849) disclose a Gallium nitride semiconductor structures

including a lateral gallium nitride layer that extends from an underlying gallium nitride layer.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Thinh T Nguyen whose telephone number is 571-272-1790. The

examiner can normally be reached on Monday-Friday 9:00am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Nelms can be reached at 571-272-1787. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 872-9306 for regular

communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0956.

Thinh T Nguyen 17W

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Supervisory Patent Examiner
Technology Center 2800

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